

Trying 31060000009999...Open

DIALOG INFORMATION SERVICES

PLEASE LOGIN:

\*\*\*\*\* HHHHHHHH SSSSSSS? ### Status: Signing onto Dialog \*\*\*\*\*

ENTER PASSWORD:

\*\*\*\*\* HHHHHHHH SSSSSSS? \*\*\*\*\*

Welcome to DIALOG

### Status: Login successfulDialog level 05.19.02D

Last logoff: 17oct07 11:47:31

Logon file405 17oct07 13:27:44

\* \* \*

SYSTEM:HOME

Cost is in DialUnits

Menu System II: D2 version 1.8.0 term=ASCII

\*\*\* DIALOG HOMEBASE(SM) Main Menu \*\*\*

Information:

1. Announcements (new files, reloads, etc.)
2. Database, Rates, & Command Descriptions
3. Help in Choosing Databases for Your Topic
4. Customer Services (telephone assistance, training, seminars, etc.)
5. Product Descriptions

Connections:

6. DIALOG(R) Document Delivery
7. Data Star(R)

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/H = Help /L = Logoff /NOMENU = Command Mode

Enter an option number to view information or to connect to an online service. Enter a BEGIN command plus a file number to search a database (e.g., B1 for ERIC).

?

Terminal set to DLINK

\*\*\* DIALOG HOMEBASE(SM) Main Menu \*\*\*

Information:

1. Announcements (new files, reloads, etc.)
2. Database, Rates, & Command Descriptions
3. Help in Choosing Databases for Your Topic
4. Customer Services (telephone assistance, training, seminars, etc.)
5. Product Descriptions

Connections:

6. DIALOG(R) Document Delivery
7. Data Star(R)

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/H = Help /L = Logoff /NOMENU = Command Mode

Enter an option number to view information or to connect to an online service. Enter a BEGIN command plus a file number to search a database (e.g., B1 for ERIC).

? b biosci

```
>>>          44 is unauthorized
>>>          76 is unauthorized
>>>2 of the specified files are not available
17oct07 13:27:51 User276653 Session D124.1
$0.00    0.253 DialUnits FileHomeBase
$0.00 Estimated cost FileHomeBase
$0.02 TELNET
$0.02 Estimated cost this search
$0.02 Estimated total session cost    0.253 DialUnits
```

SYSTEM:OS - DIALOG OneSearch

```
File 5:Biosis Previews(R) 1926-2007/Oct W2
(c) 2007 The Thomson Corporation
File 24:CSA Life Sciences Abstracts 1966-2007/Jun
(c) 2007 CSA.
File 28:Oceanic Abstracts 1966-2007/Jun
(c) 2007 CSA.
File 34:SciSearch(R) Cited Ref Sci 1990-2007/Oct W2
(c) 2007 The Thomson Corp
File 35:Dissertation Abs Online 1861-2007/Jul
(c) 2007 ProQuest Info&Learning
File 40:Enviroline(R) 1975-2007/Jul
(c) 2007 Congressional Information Service
File 41:Pollution Abstracts 1966-2007/Jun
(c) 2007 CSA.
File 45:EMCare 2007/Oct W1
(c) 2007 Elsevier B.V.
File 50:CAB Abstracts 1972-2007/Sep
(c) 2007 CAB International
File 65:Inside Conferences 1993-2007/Oct 17
(c) 2007 BLDSC all rts. reserv.
File 71:ELSEVIER BIOBASE 1994-2007/Oct W1
(c) 2007 Elsevier B.V.
File 73:EMBASE 1974-2007/Oct 17
(c) 2007 Elsevier B.V.
File 91:MANTIS(TM) 1880-2007/Apr
2001 (c) Action Potential
*File 91: This database has stopped updating temporarily. Please see
HELP NEWS 91 for details.
File 98:General Sci Abs 1984-2007/Sep
(c) 2007 The HW Wilson Co.
File 110:WasteInfo 1974-2002/Jul
(c) 2002 AEA Techn Env.
*File 110: This file is closed (no updates)
File 135:NewsRx Weekly Reports 1995-2007/Oct W1
(c) 2007 NewsRx
File 136:BioEngineering Abstracts 1966-2007/Jan
(c) 2007 CSA.
File 143:Biol. & Agric. Index 1983-2007/Sep
(c) 2007 The HW Wilson Co
```

File 144:Pascal 1973-2007/Oct W1  
 (c) 2007 INIST/CNRS  
 File 155:MEDLINE(R) 1950-2007/Oct 16  
 (c) format only 2007 Dialog  
 File 164:Allied & Complementary Medicine 1984-2007/Oct  
 (c) 2007 BLHCIS  
 File 172:EMBASE Alert 2007/Oct 09  
 (c) 2007 Elsevier B.V.  
 File 185:Zoological Record Online(R) 1864-2007/Oct  
 (c) 2007 The Thomson Corp.  
 \*File 185: The file has been reloaded to add archive records back to  
 1864. Accession numbers have changed.  
 File 357:Derwent Biotech Res. \_1982-2007/Sep W3  
 (c) 2007 The Thomson Corp.  
 File 369:New Scientist 1994-2007/Sep W1  
 (c) 2007 Reed Business Information Ltd.  
 File 370:Science 1996-1999/Jul W3  
 (c) 1999 AAAS  
 \*File 370: This file is closed (no updates). Use File 47 for more current  
 information.  
 File 391:Beilstein Database - Reactions 2007/Q2  
 (c) 2007 Beilstein GmbH  
 File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
 (c) 2006 The Thomson Corp  
 File 467:ExtramED(tm) 2000/Dec  
 (c) 2001 Informania Ltd.

| Set        | Items                | Description              |
|------------|----------------------|--------------------------|
| ?          | s                    | bacteriophage(2n)protein |
| Processing |                      |                          |
| Processed  | 20 of 29 files ...   |                          |
| Completed  | processing all files |                          |
|            | 160833               | BACTERIOPHAGE            |
|            | 10099528             | PROTEIN                  |
| S1         | 11260                | BACTERIOPHAGE(2N)PROTEIN |
| ?          | s s1 and p12         |                          |
|            | 11260                | S1                       |
|            | 14457                | P12                      |
| S2         | 17                   | S1 AND P12               |
| ?          | s s2 and endotoxin   |                          |
|            | 17                   | S2                       |
|            | 165566               | ENDOTOXIN                |
| S3         | 1                    | S2 AND ENDOTOXIN         |
| ?          | t s3/6,k/1           |                          |

3/6,K/1 (Item 1 from file: 357)  
 DIALOG(R)File 357:(c) 2007 The Thomson Corp. All rts. reserv.

0333474 DBR Accession No.: 2004-05766  
 Method for detecting and removing endotoxins, useful for treating e.g.  
 recombinantly produced pharmaceuticals or nucleic acid, by incubation  
 with phage tail protein - involving vector-mediated gene transfer and  
 expression in host cell for use in gene therapy 2003

ABSTRACT: DERWENT ABSTRACT: NOVELTY - Method for detecting endotoxins (I)  
 comprises incubating a sample with a bacteriophage tail protein

(II), then detecting any (I) bound to (II). DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also...

... 2) nucleic acid encoding the proteins of (1). USE - The method is used to detect endotoxin (I) in e.g. recombinantly produced pharmaceuticals, gene therapy agents or materials intended for injection...

...avoids the difficult preparation of antibodies directed against the core oligosaccharide of lipopolysaccharide. EXAMPLE - The p12 phage tail protein was reacted with sulfo-N-hydroxysuccinimide-LC-LC-biotin, then incubated with...

... material. A solution (1 ml) of bovine serum albumen (BSA) containing 10 EU/ml of endotoxin was stirred for 1 hour at room temperature with the p12 -containing material (50 microlitres), then centrifuged and endotoxin concentration in the supernatant measured. Removal of endotoxin was 86% and recovery of albumen 90%. (41 pages)

? t s3/9,k/1

3/9,K/1 (Item 1 from file: 357)

DIALOG(R)File 357:Derwent Biotech Res.

(c) 2007 The Thomson Corp. All rts. reserv.

0333474 DBR Accession No.: 2004-05766 PATENT

Method for detecting and removing endotoxins, useful for treating e.g. recombinantly produced pharmaceuticals or nucleic acid, by incubation with phage tail protein - involving vector-mediated gene transfer and expression in host cell for use in gene therapy

AUTHOR: SCHUETZ M; MEYER R; GRALLERT H; MILLER S

PATENT ASSIGNEE: PROFOS AG 2003

PATENT NUMBER: WO 200401418 PATENT DATE: 20031231 WPI ACCESSION NO.:

2004-071780 (200407)

PRIORITY APPLIC. NO.: DE 1007793 APPLIC. DATE: 20030224

NATIONAL APPLIC. NO.: WO 2003DE2096 APPLIC. DATE: 20030624

LANGUAGE: German

ABSTRACT: DERWENT ABSTRACT: NOVELTY - Method for detecting endotoxins (I) comprises incubating a sample with a bacteriophage tail protein (II), then detecting any (I) bound to (II). DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method of removing (I) from a sample by incubation or contact with (II) that is immobilized, non-specifically or in a targeted manner, on a solid carrier. WIDER DISCLOSURE - This describes (1) phage proteins coupled at either end, especially the C-terminus, to a tag, particularly one that has a surface-exposed Cys residue for targeted biotinylation, and (2) nucleic acid encoding the proteins of (1). USE - The method is used to detect endotoxin (I) in e.g. recombinantly produced pharmaceuticals, gene therapy agents or materials intended for injection, also in research materials (nucleic acids) used in transfection experiments. When (II) is immobilized on a solid carrier, then method can be used for removing (I). ADVANTAGE - The method is applicable to all aqueous solutions; is superior to known detection and purification methods, and avoids the difficult preparation of antibodies directed against the core oligosaccharide of lipopolysaccharide. EXAMPLE - The p12 phage tail protein was reacted with sulfo-N-hydroxysuccinimide-LC-LC-biotin, then incubated with streptavidin-loaded chromatography material. A solution (1 ml) of bovine serum albumen (BSA) containing 10 EU/ml of endotoxin was stirred for 1 hour at room temperature with the p12 -containing

material (50 microlitres), then centrifuged and endotoxin concentration in the supernatant measured. Removal of endotoxin was 86% and recovery of albumen 90%.(41 pages)

DESCRIPTORS: recombinant phage tail protein prep., isol., vector-mediated gene transfer, expression in host cell, appl. gene therapy, pharmaceutical ind. (23, 11)

SECTION: THERAPEUTICS-Protein Therapeutics-GENETIC TECHNIQUES and APPLICATIONS-Gene Expression Techniques and Analysis; PHARMACEUTICALS-Other Pharmaceuticals-THERAPEUTICS-Gene Therapy

ABSTRACT: DERWENT ABSTRACT: NOVELTY - Method for detecting endotoxins (I) comprises incubating a sample with a bacteriophage tail protein (II), then detecting any (I) bound to (II). DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also...

... 2) nucleic acid encoding the proteins of (1). USE - The method is used to detect endotoxin (I) in e.g. recombinantly produced pharmaceuticals, gene therapy agents or materials intended for injection...

...avoids the difficult preparation of antibodies directed against the core oligosaccharide of lipopolysaccharide. EXAMPLE - The p12 phage tail protein was reacted with sulfo-N-hydroxysuccinimide-LC-LC-biotin, then incubated with...

... material. A solution (1 ml) of bovine serum albumen (BSA) containing 10 EU/ml of endotoxin was stirred for 1 hour at room temperature with the p12 -containing material (50 microlitres), then centrifuged and endotoxin concentration in the supernatant measured. Removal of endotoxin was 86% and recovery of albumen 90%.(41 pages)

? t s2/6,k/1-10

2/6,K/1 (Item 1 from file: 5)  
DIALOG(R)File 5:(c) 2007 The Thomson Corporation. All rts. reserv.

15281682 BIOSIS NO.: 199900541342  
Folding of coliphage T4 short tail fiber in vitro. Analysing the role of a bacteriophage-encoded chaperone  
1999

...ABSTRACT: polypeptides of the long fiber (p34 and p37) and that of the short tail fiber ( p12 ) fail to trimerize. Instead they form water-insoluble aggregates. Co-expression of the genes 12 and 57 in vivo caused the formation of only trimeric, water-soluble p12 . The function of g57 cannot be replaced by overexpression of the host proteins GroEL/ES ...

...unknown, mainly because it has not been possible to determine its activity in vitro. Purified p12 , denatured in 7 M urea, trimerized spontaneously in a slow reaction (half-time approx 6 h) and with low yield. Upon renaturation, p12 forms native SDS-resistant trimers as indicated by spectroscopic and hydrodynamic measurements. Addition of p57 ...

DESCRIPTORS:  
CHEMICALS & BIOCHEMICALS: ... p12 --...

... bacteriophage -encoded protein ; ...

... bacteriophage -encoded protein , molecular chaperone

2/6,K/2 (Item 2 from file: 5)  
DIALOG(R)File 5:(c) 2007 The Thomson Corporation. All rts. reserv.

12785738 BIOSIS NO.: 199598253571  
Effects of heat and SDS on the structure and function of bacteriophage T4  
P12 protein  
1995

Effects of heat and SDS on the structure and function of bacteriophage T4  
P12 protein

2/6,K/3 (Item 3 from file: 5)  
DIALOG(R)File 5:(c) 2007 The Thomson Corporation. All rts. reserv.

10655429 BIOSIS NO.: 199191038320  
CHARACTERIZATION OF A DNA BINDING PROTEIN OF BACTERIOPHAGE PRD1  
INVOLVED IN DNA REPLICATION  
1990

CHARACTERIZATION OF A DNA BINDING PROTEIN OF BACTERIOPHAGE PRD1  
INVOLVED IN DNA REPLICATION

ABSTRACT: Escherichia coli phage PRD1 protein P12 , involved in PRD1 DNA replication in vivo, has been highly purified from E. coli cells harboring a gene XII-containing plasmid. Protein P12 binds to single-stranded DNA as shown by gel retardation assays and nuclease protection experiments. Binding of protein P12 to single-stranded DNA increases about 14% the contour length of the DNA as revealed...

...to single-stranded DNA seems to be cooperative, and it is not sequence specific. Protein P12 also binds to double-stranded DNA although with an affinity 10 times lower than to...

2/6,K/4 (Item 1 from file: 24)  
DIALOG(R)File 24:(c) 2007 CSA. All rts. reserv.

0001036583 IP ACCESSION NO: 2522342  
Characterization of a DNA binding protein of bacteriophage PRD1  
involved in DNA replication.  
PUBLICATION DATE: 1990

Characterization of a DNA binding protein of bacteriophage PRD1  
involved in DNA replication.

ABSTRACT:

Escherichia coli phage PRD1 protein P12 , involved in PRD1 DNA replication in vivo, has been highly purified from E. coli cells harboring a gene XII-containing plasmid. Protein P12 binds to single-stranded DNA as shown by gel retardation assays and nuclease protection experiments. Binding of protein P12 to single-stranded DNA increases about 14% the contour length of the DNA as revealed...

IDENTIFIERS: DNA; replication; P12 protein

2/6,K/5 (Item 1 from file: 34)  
DIALOG(R)File 34:(c) 2007 The Thomson Corp. All rts. reserv.

04286024 Genuine Article#: QP232 Number of References: 0  
Title: EFFECTS OF HEAT AND SDS ON THE STRUCTURE AND FUNCTION OF  
BACTERIOPHAGE -T4 P12 PROTEIN

Title: EFFECTS OF HEAT AND SDS ON THE STRUCTURE AND FUNCTION OF  
BACTERIOPHAGE -T4 P12 PROTEIN

2/6,K/6 (Item 2 from file: 34)  
DIALOG(R)File 34:(c) 2007 The Thomson Corp. All rts. reserv.

00175128 Genuine Article#: CV138 Number of References: 26  
Title: BINDING-PROPERTIES OF AVIAN RETROVIRAL PROTEINS .2. BINDING OF  
PROTEIN ASLV NC( P12 ) TO VIRAL-RNA AND PROVIRAL DNA

Title: BINDING-PROPERTIES OF AVIAN RETROVIRAL PROTEINS .2. BINDING OF  
PROTEIN ASLV NC( P12 ) TO VIRAL-RNA AND PROVIRAL DNA  
Research Fronts: 88-4580 001 (SIMIAN VIRUS-40 DNA; RESTRICTION  
ENDONUCLEASE PATTERNS; STRUCTURAL ORGANIZATION; MITOCHONDRIAL GENOME;  
TEMPERATE BACTERIOPHAGE ; P12 PROTEIN )

2/6,K/7 (Item 1 from file: 73)  
DIALOG(R)File 73:(c) 2007 Elsevier B.V. All rts. reserv.

04504383 EMBASE No: 1990395911  
Characterization of a DNA binding protein of bacteriophage PRD1  
involved in DNA replication  
1990

Characterization of a DNA binding protein of bacteriophage PRD1  
involved in DNA replication

Escherichia coli phage PRD1 protein P12 , involved in PRD1 DNA  
replication in vivo, has been highly purified from E. coli cells harboring  
a gene XII-containing plasmid. Protein P12 binds to single-stranded DNA  
as shown by gel retardation assays and nuclease protection experiments.  
Binding of protein P12 to single-stranded DNA increases about 14% the  
contour length of the DNA as revealed...

...to single-stranded DNA seems to be cooperative, and it is not sequence  
specific. Protein P12 also binds to double-stranded DNA although with an  
affinity 10 times lower than to...

...DNA. Using the in vitro phage Phi29 DNA replication system, it is shown  
that protein P12 stimulates the overall Phi29 DNA replication.

2/6,K/8 (Item 1 from file: 98)  
DIALOG(R)File 98:(c) 2007 The HW Wilson Co. All rts. reserv.

02781088 H.W. WILSON RECORD NUMBER: BGS194031088  
Plasmid-directed assembly of the lipid-containing membrane of bacteriophage  
P6.  
July '94 (19940700)

ABSTRACT: Interactions between bacteriophage f6 membrane protein P9  
and morphogenetic protein P12 were studied in the absence of phage  
infection. P9 was expressed on plasmids in Pseudomonas...

...not in strains carrying gene 9 alone; moreover, P9 was unstable in the  
absence of P12. When both proteins were expressed, a low-density P9  
particle with a buoyant density similar...

...from f6-infected cells was produced. Thus, the essential and sufficient  
requirement for P9 and P12 in f6 envelope formation, identified in  
previous genetic experiments, was confirmed. Extensions of the N...

2/6,K/9 (Item 1 from file: 144)  
DIALOG(R)File 144:(c) 2007 INIST/CNRS. All rts. reserv.

09482724 PASCAL No.: 91-0273118  
Characterization of a DNA binding protein of bacteriophage PRD1 in  
DNA replication  
1990

Characterization of a DNA binding protein of bacteriophage PRD1 in  
DNA replication

French Descriptors: Replication; Proteine liaison DNA; Purification;  
Interaction moleculaire; DNA monocatenaire; DNA bicatenaire;  
Bacteriophage PRD1; Proteine P12

2/6,K/10 (Item 1 from file: 155)  
DIALOG(R)File 155:(c) format only 2007 Dialog. All rts. reserv.

10093411 PMID: 8021194  
Plasmid-directed assembly of the lipid-containing membrane of  
bacteriophage phi 6.  
Jul 1994

... P9, P10, and P13 and phospholipids. The relationship between membrane  
protein P9 and morphogenetic protein P12 was studied in the absence of  
phage infection. cDNA copies of genes 9 and 12...

...and gene 12 but not in strains with gene 9 alone. In the absence of P12  
, P9 was found to be unstable. Simultaneous synthesis of proteins P9 and  
P12 led to the formation of a low-density P9 particle having a buoyant  
density similar...

... cells. These results are consistent with results of previous genetic  
experiments suggesting that P9 and P12 are necessary and sufficient for  
the formation of the phi 6 envelope. Extensions of P9...

Chemical Name: Viral Matrix Proteins; Viral Nonstructural Proteins;  
protein P12, bacteriophage phi6; protein P9, bacteriophage phi6  
? s s2 and lipopolysaccharide



17 S2  
278300 LIPOPOLYSACCHARIDE  
S4 1 S2 AND LIPOPOLYSACCHARIDE  
? t s4/6,k/1

4/6,K/1 (Item 1 from file: 357)  
DIALOG(R)File 357:(c) 2007 The Thomson Corp. All rts. reserv.

0333474 DBR Accession No.: 2004-05766  
Method for detecting and removing endotoxins, useful for treating e.g.  
recombinantly produced pharmaceuticals or nucleic acid, by incubation  
with phage tail protein - involving vector-mediated gene transfer and  
expression in host cell for use in gene therapy 2003

ABSTRACT: DERWENT ABSTRACT: NOVELTY - Method for detecting endotoxins (I)  
comprises incubating a sample with a bacteriophage tail protein  
(II), then detecting any (I) bound to (II). DETAILED DESCRIPTION - An  
INDEPENDENT CLAIM is also...

...purification methods, and avoids the difficult preparation of antibodies  
directed against the core oligosaccharide of lipopolysaccharide .  
EXAMPLE - The p12 phage tail protein was reacted with  
sulfo-N-hydroxysuccinimide-LC-LC-biotin, then incubated with...

... 10 EU/ml of endotoxin was stirred for 1 hour at room temperature with  
the p12 -containing material (50 microlitres), then centrifuged and  
endotoxin concentration in the supernatant measured. Removal of...

? s s2 and bind?

17 S2  
4829423 BIND?  
S5 11 S2 AND BIND?

? s s2 and detect?

17 S2  
7054360 DETECT?  
S6 2 S2 AND DETECT?

? t s6/6,k/1-2

6/6,K/1 (Item 1 from file: 155)  
DIALOG(R)File 155:(c) format only 2007 Dialog. All rts. reserv.

07558374 PMID: 2961803

T lymphocyte response to bacteriophage lambda repressor cI protein.  
Recognition of the same peptide presented by Ia molecules of different  
haplotypes.  
Dec 15 1987

... the protein, residues 12-26, is the immunodominant site. Fine  
specificity analysis using truncated peptides ( P12 -24 and P15-26) reveals  
a great deal of heterogeneity at the clonal level of...

... restricted T cells. I-Ek-restricted T cells are less heterogeneous in  
their reactivity toward P12 -24 and P15-26, but show diversity in their  
responses to peptide analogues with substitution...

... is presented in different configurations by different Ia molecules.  
Further, no cross-reactivity can be detected between T cells of these two  
haplotypes, Ia molecules and Ia bound-peptides.

Chemical Name: DNA-Binding Proteins; Histocompatibility Antigens Class II ; Peptide Fragments; Repressor Proteins; Transcription Factors; Viral Proteins; bacteriophage lambda repressor protein

6/6,K/2 (Item 1 from file: 357)  
DIALOG(R)File 357:(c) 2007 The Thomson Corp. All rts. reserv.

0333474 DBR Accession No.: 2004-05766  
Method for detecting and removing endotoxins, useful for treating e.g. recombinantly produced pharmaceuticals or nucleic acid, by incubation with phage tail protein - involving vector-mediated gene transfer and expression in host cell for use in gene therapy 2003

Method for detecting and removing endotoxins, useful for treating e.g. recombinantly produced pharmaceuticals or nucleic acid, by...  
ABSTRACT: DERWENT ABSTRACT: NOVELTY - Method for detecting endotoxins (I) comprises incubating a sample with a bacteriophage tail protein (II), then detecting any (I) bound to (II). DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a...

... and (2) nucleic acid encoding the proteins of (1). USE - The method is used to detect endotoxin (I) in e.g. recombinantly produced pharmaceuticals, gene therapy agents or materials intended for...

... removing (I). ADVANTAGE - The method is applicable to all aqueous solutions; is superior to known detection and purification methods, and avoids the difficult preparation of antibodies directed against the core oligosaccharide of lipopolysaccharide. EXAMPLE - The p12 phage tail protein was reacted with sulfo-N-hydroxysuccinimide-LC-LC-biotin, then incubated with...

... 10 EU/ml of endotoxin was stirred for 1 hour at room temperature with the p12 -containing material (50 microlitres), then centrifuged and endotoxin concentration in the supernatant measured. Removal of...  
? t s5/6,k/1-11

5/6,K/1 (Item 1 from file: 5)  
DIALOG(R)File 5:(c) 2007 The Thomson Corporation. All rts. reserv.

10655429 BIOSIS NO.: 199191038320  
CHARACTERIZATION OF A DNA BINDING PROTEIN OF BACTERIOPHAGE PRD1 INVOLVED IN DNA REPLICATION  
1990

CHARACTERIZATION OF A DNA BINDING PROTEIN OF BACTERIOPHAGE PRD1 INVOLVED IN DNA REPLICATION

ABSTRACT: Escherichia coli phage PRD1 protein P12, involved in PRD1 DNA replication in vivo, has been highly purified from E. coli cells harboring a gene XII-containing plasmid. Protein P12 binds to single-stranded DNA as shown by gel retardation assays and nuclease protection experiments. Binding of protein P12 to single-stranded DNA increases about 14% the contour length of the DNA as revealed by electron microscopy. Binding to single-stranded DNA seems to be cooperative, and it is not sequence specific. Protein P12 also binds to double-stranded DNA although with an affinity 10 times lower than to

single-stranded...  
DESCRIPTORS: PHAGE PHI-29 ESCHERICHIA-COLI SINGLE-STRANDED VS.  
DOUBLE-STRANDED DNA BINDING AFFINITY

5/6,K/2 (Item 1 from file: 24)  
DIALOG(R)File 24:(c) 2007 CSA. All rts. reserv.

0001036583 IP ACCESSION NO: 2522342  
Characterization of a DNA binding protein of bacteriophage PRD1  
involved in DNA replication.  
PUBLICATION DATE: 1990

Characterization of a DNA binding protein of bacteriophage PRD1  
involved in DNA replication.

ABSTRACT:

Escherichia coli phage PRD1 protein P12 , involved in PRD1 DNA  
replication in vivo, has been highly purified from E. coli cells harboring  
a gene XII-containing plasmid. Protein P12 binds to single-stranded DNA  
as shown by gel retardation assays and nuclease protection experiments.  
Binding of protein P12 to single-stranded DNA increases about 14% the  
contour length of the DNA as revealed by electron microscopy. Binding to  
single-stranded DNA seems to be cooperative, and it is not sequence  
specific.

DESCRIPTORS: DNA- binding protein; Escherichia coli; phage PRD1  
IDENTIFIERS: DNA; replication; P12 protein

5/6,K/3 (Item 1 from file: 34)  
DIALOG(R)File 34:(c) 2007 The Thomson Corp. All rts. reserv.

00175128 Genuine Article#: CV138 Number of References: 26  
Title: BINDING -PROPERTIES OF AVIAN RETROVIRAL PROTEINS .2. BINDING OF  
PROTEIN ASLV NC( P12 ) TO VIRAL-RNA AND PROVIRAL DNA

Title: BINDING -PROPERTIES OF AVIAN RETROVIRAL PROTEINS .2. BINDING OF  
PROTEIN ASLV NC( P12 ) TO VIRAL-RNA AND PROVIRAL DNA  
Research Fronts: 88-4580 001 (SIMIAN VIRUS-40 DNA; RESTRICTION  
ENDONUCLEASE PATTERNS; STRUCTURAL ORGANIZATION; MITOCHONDRIAL GENOME;  
TEMPERATE BACTERIOPHAGE ; FLP PROTEIN )

5/6,K/4 (Item 1 from file: 73)  
DIALOG(R)File 73:(c) 2007 Elsevier B.V. All rts. reserv.

04504383 EMBASE No: 1990395911  
Characterization of a DNA binding protein of bacteriophage PRD1  
involved in DNA replication  
1990

Characterization of a DNA binding protein of bacteriophage PRD1  
involved in DNA replication

Escherichia coli phage PRD1 protein P12 , involved in PRD1 DNA  
replication in vivo, has been highly purified from E. coli cells harboring

a gene XII-containing plasmid. Protein P12 binds to single-stranded DNA as shown by gel retardation assays and nuclease protection experiments. Binding of protein P12 to single-stranded DNA increases about 14% the contour length of the DNA as revealed by electron microscopy. Binding to single-stranded DNA seems to be cooperative, and it is not sequence specific. Protein P12 also binds to double-stranded DNA although with an affinity 10 times lower than to single-stranded DNA. Using the in vitro phage Phi29 DNA replication system, it is shown that protein P12 stimulates the overall Phi29 DNA replication.

DRUG DESCRIPTORS:

\*dna binding protein

5/6,K/5 (Item 1 from file: 144)

DIALOG(R)File 144:(c) 2007 INIST/CNRS. All rts. reserv.

09482724 PASCAL No.: 91-0273118

Characterization of a DNA binding protein of bacteriophage PRD1 in DNA replication  
1990

Characterization of a DNA binding protein of bacteriophage PRD1 in DNA replication

English Descriptors: Replication; DNA binding protein; Purification;  
Molecular interaction; Single stranded DNA; Double stranded DNA; Phage PRD1

French Descriptors: Replication; Proteine liaison DNA; Purification;  
Interaction moleculaire; DNA monocatenaire; DNA bicatenaire;  
Bacteriophage PRD1; Proteine P12

5/6,K/6 (Item 1 from file: 155)

DIALOG(R)File 155:(c) format only 2007 Dialog. All rts. reserv.

09216587 PMID: 1372561

T cell epitope selection: dominance may be determined by both affinity for major histocompatibility complex and stoichiometry of epitope.  
Apr 1992

... immunization with lambda repressor cI recognize a peptide fragment comprising of residues 12 to 26 (P12 -26). Some other parts of the cI (P1-14, P33-48 and P73-88) are...

... T cell responses by themselves in BALB/c mouse. The mechanisms underlying the selection of P12 -26 over the other epitopes when lambda repressor was used as immunogen were examined. The dominant response to P12 -26 was attenuated by tolerizing with intravenous administration of P12 -26. Under such treatment the T cell response to P12 -26 was reduced by 80% but there was no enhancement on the responses toward other epitopes. The selection of P12 -26 is, thus, unlikely to be due to a competition at the T cell level. It was also found that the dominance of P12 -26 was not simply due to a higher affinity of P12 -26 for major histocompatibility complex molecules. For example P12 -26 binds better to I-Ad molecule than P80-102, but co-injection with equimole of P12 -26 only slightly inhibited P80-102-induced T cell response. Instead, it required a few molar

excess of P12 -26 to effectively block the association of P80-102 with I-Ad molecules and to...

... 102 were generated from lambda repressor cI at a lower molar basis than that of P12 -26, it is suggested that the dominance of P12 -26 was probably generated by such stoichiometry difference, in addition to the higher affinity of P12 -26 for I-Ad molecules.

Descriptors: \*DNA- Binding Proteins; \*Epitopes; \*Major Histocompatibility Complex; \*Repressor Proteins--immunology--IM; \*T-Lymphocytes--immunology--IM; Amino Acid Sequence; Animals; Antigen-Presenting Cells--immunology--IM; Binding , Competitive; Cells, Cultured; Dose-Response Relationship, Immunologic; Histocompatibility Antigens Class II--metabolism--ME; Immune Tolerance...

Chemical Name: DNA- Binding Proteins; Epitopes; Histocompatibility Antigens Class II; Interleukin-2; Peptides; Repressor Proteins; Viral Proteins; bacteriophage lambda repressor protein

5/6,K/7 (Item 2 from file: 155)  
DIALOG(R)File 155:(c) format only 2007 Dialog. All rts. reserv.

09040738 PMID: 1719991

Insights on the amino acid side-chain interactions of a synthetic T-cell determinant.  
Jul 1991

... substitutions at positions 18 and 20 on the T-cell determinant (TD) character of peptide p12 -26 from lambda repressor protein and on its recognition by a monoclonal antibody was studied...

...Leu 18 and Ala 20 are important residues in defining the TD character of peptide p12 -26. The most tolerated replacements, ordered in increasing disrupting power are: Ala 20 by Cys...

...Ile or Val. Any other amino acid replacement completely abolishes the TD capacity of peptide p12 -26. The peptides used in this study were synthesized using a multiple solid-phase peptide...

Descriptors: \*DNA- Binding Proteins; \*Epitopes--chemistry--CH; \*Peptides--immunology--IM; \*T-Lymphocytes--immunology--IM

Chemical Name: Antibodies, Monoclonal; DNA- Binding Proteins; Epitopes; Peptides; Repressor Proteins; Viral Proteins; bacteriophage lambda repressor protein

5/6,K/8 (Item 3 from file: 155)  
DIALOG(R)File 155:(c) format only 2007 Dialog. All rts. reserv.

08665436 PMID: 2251117

Characterization of a DNA binding protein of bacteriophage PRD1 involved in DNA replication.  
Nov 25 1990

Characterization of a DNA binding protein of bacteriophage PRD1 involved in DNA replication.

Escherichia coli phage PRD1 protein P12 , involved in PRD1 DNA replication in vivo, has been highly purified from E. coli cells harbouring a gene XII-containing plasmid. Protein P12 binds to single-stranded DNA

as shown by gel retardation assays and nuclease protection experiments. Binding of protein P12 to single-stranded DNA increases about 14% the contour length of the DNA as revealed by electron microscopy. Binding to single-stranded DNA seems to be cooperative, and it is not sequence specific. Protein P12 also binds to double-stranded DNA although with an affinity 10 times lower than to single-stranded...

...Using the in vitro phage phi 29 DNA replication system, it is shown that protein P12 stimulates the overall phi 29 DNA replication.

Descriptors: \*Coliphages--metabolism--ME; \*DNA Replication--drug effects--DE; \*DNA, Viral--biosynthesis--BI; \*DNA- Binding Proteins--genetics--GE; \*Viral Proteins--pharmacology--PD

Chemical Name: DNA, Single-Stranded; DNA, Viral; DNA- Binding Proteins; Viral Proteins; DNA

5/6,K/9 (Item 4 from file: 155)  
DIALOG(R)File 155:(c) format only 2007 Dialog. All rts. reserv.

08505241 PMID: 1693642

Restricted V-(D)-J junctional regions in the T cell response to lambda-repressor. Identification of residues critical for antigen recognition.  
Jun 15 1990

The T cell response to lambda-repressor is directed to a 15 amino acid peptide ( P12 -26) of the protein in A/J mice. Previous studies have demonstrated a preferential use of V alpha 2 and V beta 1 amongst the T cell hybridomas specific for P12 -26 in the context of I-Ek. By using the polymerase chain reaction, the sequences...

... a single amino acid deletion in the V alpha-J alpha region may reduce the P12 -26 response and abolish the recognition of an altered peptide [Phe22] P12 -26. In addition, three amino acid difference in the V-D-J region of the beta-chain also determine the P12 -26 reactivity. Thus the V(D)J junctional regions of both alpha- and beta-chains...

Descriptors: \*DNA- Binding Proteins; \*Epitopes; \*Gene Rearrangement, alpha-Chain T-Cell Antigen Receptor; \*Gene Rearrangement, beta-Chain T...

Chemical Name: DNA- Binding Proteins; Epitopes; Receptors, Antigen, T-Cell; Repressor Proteins; Transcription Factors; Viral Proteins; bacteriophage lambda repressor protein

5/6,K/10 (Item 5 from file: 155)  
DIALOG(R)File 155:(c) format only 2007 Dialog. All rts. reserv.

07834421 PMID: 2971753

T cell receptor gene usage in the response to lambda repressor cI protein. An apparent bias in the usage of a V alpha gene element.  
Sep 1 1988

...both BALB/c and A/J mice. A panel of T cell hybridomas specific for P12 -26 in the context of either I-Ek or I-Ad have been isolated To further understand the molecular interaction between the TCR and the Ia-P12 -26 complex, the primary structures of the TCR of five T cell hybridomas have been...

... specificity of I-Ek-restricted T cells to a single amino acid substitution [Phe22/His22] P12 -26 is not attributed to the usage of particular V alpha and V beta elements...

...alpha 3 is also demonstrated by the fact that V alpha 3 is used by P12 -26-specific, but not by cytochrome c- or staphylococcal nucleus-specific, I-Ek-restricted T...

...the TCR, the members of V alpha 3 genes may be selected by the antigen ( P12 -26).

Descriptors: \*DNA- Binding Proteins; \*Histocompatibility Antigens Class II--immunology--IM; \*Receptors, Antigen, T-Cell--genetics--GE; \*Repressor Proteins...

Chemical Name: DNA- Binding Proteins; Histocompatibility Antigens Class II; Oligopeptides; Receptors, Antigen, T-Cell; Receptors, Antigen, T-Cell, alpha-beta; Repressor Proteins; Transcription Factors; Viral Proteins; bacteriophage lambda repressor protein

5/6,K/11 (Item 6 from file: 155)  
DIALOG(R)File 155:(c) format only 2007 Dialog. All rts. reserv.

07558374 PMID: 2961803

T lymphocyte response to bacteriophage lambda repressor cI protein. Recognition of the same peptide presented by Ia molecules of different haplotypes.  
Dec 15 1987

... the protein, residues 12-26, is the immunodominant site. Fine specificity analysis using truncated peptides ( P12 -24 and P15-26) reveals a great deal of heterogeneity at the clonal level of...

... restricted T cells. I-Ek-restricted T cells are less heterogeneous in their reactivity toward P12 -24 and P15-26, but show diversity in their responses to peptide analogues with substitution...

Descriptors: \*Bacteriophage lambda--immunology--IM; \*DNA- Binding Proteins; \*Histocompatibility Antigens Class II--immunology--IM; \*Repressor Proteins--immunology--IM; \*T-Lymphocytes--immunology--IM...

Chemical Name: DNA- Binding Proteins; Histocompatibility Antigens Class II; Peptide Fragments; Repressor Proteins; Transcription Factors; Viral Proteins; bacteriophage lambda repressor protein

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17oct07 13:33:50 User276653 Session D124.2  
\$5.32 0.887 DialUnits File5  
\$0.72 4 Type(s) in Format 95 (KWIC)  
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\$6.04 Estimated cost File5  
\$1.30 0.210 DialUnits File24  
\$0.00 2 Type(s) in Format 95 (KWIC)  
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\$1.30 Estimated cost File24  
\$0.18 0.029 DialUnits File28  
\$0.18 Estimated cost File28  
\$18.51 0.744 DialUnits File34  
\$1.29 3 Type(s) in Format 95 (KWIC)  
\$1.29 3 Types  
\$19.80 Estimated cost File34

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|         | \$0.25                 | 0.035 | DialUnits | File40              |
| \$0.25  | Estimated cost File40  |       |           |                     |
|         | \$0.16                 | 0.026 | DialUnits | File41              |
| \$0.16  | Estimated cost File41  |       |           |                     |
|         | \$0.44                 | 0.088 | DialUnits | File45              |
| \$0.44  | Estimated cost File45  |       |           |                     |
|         | \$0.83                 | 0.181 | DialUnits | File50              |
| \$0.83  | Estimated cost File50  |       |           |                     |
|         | \$0.14                 | 0.035 | DialUnits | File65              |
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|         | \$10.35                | 0.870 | DialUnits | File73              |
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|         | \$0.10                 | 0.023 | DialUnits | File91              |
| \$0.10  | Estimated cost File91  |       |           |                     |
|         | \$0.26                 | 0.061 | DialUnits | File98              |
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|         | \$0.25                 | 1     | Types     |                     |
| \$0.51  | Estimated cost File98  |       |           |                     |
|         | \$0.12                 | 0.020 | DialUnits | File110             |
| \$0.12  | Estimated cost File110 |       |           |                     |
|         | \$0.47                 | 0.088 | DialUnits | File135             |
| \$0.47  | Estimated cost File135 |       |           |                     |
|         | \$0.18                 | 0.029 | DialUnits | File136             |
| \$0.18  | Estimated cost File136 |       |           |                     |
|         | \$0.13                 | 0.044 | DialUnits | File143             |
| \$0.13  | Estimated cost File143 |       |           |                     |
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|         | \$0.46                 | 2     | Types     |                     |
| \$2.68  | Estimated cost File144 |       |           |                     |
|         | \$2.81                 | 0.826 | DialUnits | File155             |
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|         | \$0.40                 | 8     | Types     |                     |
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|         | \$0.07                 | 0.020 | DialUnits | File164             |
| \$0.07  | Estimated cost File164 |       |           |                     |
|         | \$0.35                 | 0.029 | DialUnits | File172             |
| \$0.35  | Estimated cost File172 |       |           |                     |
|         | \$0.31                 | 0.050 | DialUnits | File185             |
| \$0.31  | Estimated cost File185 |       |           |                     |
|         | \$3.76                 | 0.163 | DialUnits | File357             |
|         | \$4.10                 | 1     | Type(s)   | in Format 9         |
|         | \$0.90                 | 3     | Type(s)   | in Format 95 (KWIC) |
|         | \$5.00                 | 4     | Types     |                     |
| \$8.76  | Estimated cost File357 |       |           |                     |
|         | \$0.05                 | 0.015 | DialUnits | File369             |
| \$0.05  | Estimated cost File369 |       |           |                     |
|         | \$0.09                 | 0.026 | DialUnits | File370             |
| \$0.09  | Estimated cost File370 |       |           |                     |
|         | \$0.00                 | 0.035 | DialUnits | File391             |
| \$0.00  | Estimated cost File391 |       |           |                     |



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|         | \$2.25                                       | 0.090 DialUnits File434 |
| \$2.25  | Estimated cost File434                       |                         |
|         | \$0.09                                       | 0.015 DialUnits File467 |
| \$0.09  | Estimated cost File467                       |                         |
|         | OneSearch, 29 files, 5.468 DialUnits FileOS  |                         |
| \$1.60  | TELNET                                       |                         |
| \$64.37 | Estimated cost this search                   |                         |
| \$64.39 | Estimated total session cost 5.721 DialUnits |                         |

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